

Serial No. 10/715,369

Docket No. HSI-0002

Amdt. dated August 16, 2005

Reply to Office Action of May 16, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An organic electroluminescent device, comprising:

a first electrode;

a second electrode; and

one or more organic luminescent ~~layers~~media, ~~having~~ including an emission layer, ~~and a second electrode~~, wherein the emission layer comprises:

a doping ~~region-layer~~ having both host material and doping material;

and

a non-doping ~~region-layer~~ having only said host material, wherein at least a portion of the non-doping regionlayer is in contact with at least a portion of the doping ~~regionlayer~~.
2. (Currently Amended) The ~~organic electroluminescent device according to~~ claim 1, wherein ~~the~~ a thickness of said doping ~~region-layer~~ of the emission layer is ~~the same as, or higher than, that~~ greater than or equal to a thickness of said non-doping ~~region-layer~~ of the emission layer.

3. (Currently Amended) The ~~organic electroluminescent device according to~~of claim 2, wherein said non-doping ~~region-layer of the emission layer~~ has a thickness of 1~15nm.

4. (Currently Amended) The ~~organic electroluminescent device according to~~of claim 2, wherein said doping ~~region-layer of the emission layer~~ has a thickness of 1~60nm.

5. (Currently Amended) The ~~organic electroluminescent device according to~~of claim 1, wherein said one or more organic luminescent layersmedia includes a hole injection layer, a hole transport layer, an electron injection layer, and an election transport layer, and wherein said doping ~~region-layer of the emission layer~~ is in contact with any one of asaid first electrode, ~~a-said hole injection layer of the organic luminescent layer~~, and ~~a-said hole transport layer of the organic luminescent layer~~, and said non-doping ~~region-layer of the emission layer~~ is in contact with any one of asaid second electrode, ~~an-said electron injection layer of the organic luminescent layer~~, and ~~an-said electron transport layer of the organic luminescent layer~~.

6. (Currently Amended) A ~~preparation method of the~~for making an organic electroluminescent device, comprising ~~the steps of~~:

forming an anode, a hole injection layer, and a hole transport layer sequentially
on a substrate ~~in order~~;

forming an emission layer that includes a doping region layer of the emission
~~layer; forming and~~ a non-doping ~~region layer of the emission layer~~; and

forming an electron injection layer, an electron transport layer, and a cathode
~~in order~~ sequentially on the emission layer.

7. (Currently Amended) A ~~preparation method of the~~ for making an organic
electroluminescent device, comprising ~~the steps of~~:

forming an anode ~~and on~~ a substrate;

forming one or more hole-related layers on a substrate in order the anode;

forming ~~separately the~~ an emission layer that includes a doping region layer and
a separate non-doping region layer as the emission layer; and

forming one or more electron-related layers on the emission layer; and

forming a cathode in order on the one or more electron related layers.